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## USSR PETROLEUM INDUSTRY OVERCOMES DIFFICULTIES DESPITE LAGS

TUYMAZY OIL-WELL DRILLERS COPE WITH HARD ROCK -- Moscow, Trud, 20 Apr 52

The Tuymazy area is rich in petroleum, but it is difficult to extract since the region is covered by thick layers of unusually hard rock and it is necessary to drill through 12-2 kilometers of this rock to reach the petroleum. In Baku, Buzovny drillers cut the first 1,000 meters in a few days with one bit, and, in extining the well to a depth of 1,700 meters, eight or nine bits are worn out. However, in drilling a well to that depth in Bashkir, 115-120 bits are required. In some strata, the bit is worn out before 2 meters have been drilled.

Under such circumstances as these, the Tuymazaburneft' Trust has done well to fulfill the first-quarter 1952 plan for drilling and putting wells into operation. The volume of work has increased over the first quarter of 1951 and the number of brigades has decreased. The backward method of rotary drilling has been replaced by turbodrilling.

Three years ago Tuymazy innovators, using the forced method of drilling developed by them, pushed their drilling speed to 1,000 meters per machine-month. Half of the brigades have already mastered drilling by the forced method, and many of them are approaching the speed of 1,200 meters per machine-month. A number of brigades determined to drill 9,000 meters per year and to complete each well ll days before the established date. One brigade pledged to drill 10,000 meters per year instead of the planned 6,500. These obligations, though heavy, can be fulfilled if the brigades work throughout the year at a speed of 800-900 meters per machine-month.

Unfortunately, drilling is not carried on the year round without interruption. Even the best brigades are idle 1-12 months during the year. In 1951, losses from ill-timed construction and installation equaled one quarter of the year plan for the trust. The fact that the plan was fulfilled in spite of these losses indicates the tremendous reserve capacity of the Tuymazy drillers.

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Unsystematic work prevails in the derrick-assembly shops of the Tuymaza-burneft' Trust where the most labor-consuming work is carried out manually.

DRILLING OFFICE FULFILLS PLAN FOR VOLUME, LAGS IN SPEED -- Baku, Bakinskiy Rabochiy, 18 Apr 52

In 1951, The Kaganovich office of drilling fulfilled the plan for sinking oil wells 115 percent, drilling four oil wells above the plan. However the plan for drilling speed was fulfilled only 91 percent.

In 1952, the volume of work has increased 38 percent over 1951. Workers of the office are faced with the task of increasing basic drilling indexes, particularly drilling speed, so as to assure the fulfillment or even the exceeding of the plan with the present number of machines. This task can be carried out successfully by conversion of the majority of drilling operations to the forced method. Efficient use of the bit should also contribute toward an increased speed in sinking well shafts. The office fulfilled the first-quarter 1952 plan for drilling 140 percent and increased drilling speed 13 percent above the plan by improving the work organization of the brigades and adopting high-speed methods in well sinking.

The Kaganovich drilling office has introduced turbodrilling as an improvement over rotary drilling. In 1952, it is planned to carry out 75 percent of the drilling by the turbodrilling method. Enterprises of the office have been provided with all the necessary equipment for the conversion of wells, both to the forced method of drilling and to turbodrilling; powerful mud pumps, turbodrills of the most modern design, and eight-speed hoisting winches with multiple rows of chains to assure continuous and speedy lowering and raising of tools. However, in spite of the fact that production indexes are higher for turbodrilling than for rotary drilling, they are still not as high as they should be in view of the powerful equipment being employed. At present, DZShZK three-roller bits from the Plant imeni Kirov are in use, but these bits do not meet the requirements of turbodrilling.

AZERBAYDZHAN CONSTRUCTION ORGANIZATIONS FUNCTION POORLY -- Baku, Bakinskiy Rabochiy, 20 Apr 52

Construction organizations of the Ameftestroyrazvedka Trust are not carrying out the tasks set for them. In 1951 they completed only 73.5 percent of the plan, and permitted a rise in construction costs of 18.8 percent above the plan. The first and second construction and installation administrations (SMU-1 and SMU-2) functioned particularly badly. The increase in construction costs during the year was 30 percent in the SMU-1. 25 percent in the SMU-2, and 11 percent in the road-building office.

The trust continued to work unsatisfactorily in the first quarter of 1952, failing to fulfill the plan for construction. This failure was caused by low labor and technological discipline, poor utilization of machinery, and inadequate attention to the training of qualified personnel.

Enterprises of the trust have a sufficient number of construction machines, but they do not utilize them to capacity. In 1951, the stock of bulldozers was utilized only 17 percent, one-burket excavators 32.2 percent, and multiple-bucket excavators 11.6 percent. The same situation was drue of conveyers, concrete mixers, and other types of machinery.

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AZERBAYDZHAM PETROLEUM MACHINERY TRUST EXPANDS PRODUCTION PROGRAM -- Baku, Bakinskiy Rabochiy, 10 Apr 52

The Azneftemash Trust exceeded the 1951 plan with a 13-percent increase in the production of petroleum machinery above 1950. Production of more than 70 new types of machines, tools, and highly productive devices for drilling and exploiting oil wells has been started and mass production of them is now being organized in the plants.

The Plant imeni Kirov has exceeded the plan for every established type of product for the first quarter of 1952, and, at the same time, has lowered production costs 0.4 percent below plan. The plants imeni Dzerzhinskiy and imeni Leyt. Shmidt are also exceeding the plan for petroleum machinery output and reducing production costs below the plan.

Eight enterprises, including the plants imeni Volodarskiy, imeni Sardarov, imeni Budennyy, Bakinskiy Rabochiy, and Bol'shevik did not fulfill the 1951 plant for variety of production and the Plant imeni Volodarskiy and the Baku Tractor Repair Plant are still failing to deliver all the established varieties of products.

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